

Amendments to the Specification:

Please replace Para. [0008] beginning at page 3, page line 1, with the following rewritten paragraph:

[0008] A further object of the invention is a computer program for processing a polygon model, ~~which computer program is embodied in a distribution medium readable by a computer. The computer program according to the invention comprises~~ comprising: a vertex array which is linear and static and which includes the vertices of the image elements of the polygon model; an index array which is linear and the elements of which determine the image elements of the polygon model by pointing at the vertices of the image elements, and which index array comprises an active part, the image elements determined by the elements of the active part being included in the polygon model part to be presented graphically; a hierarchical data structure whose hierarchy is based on the division of the vertices in the image space, the nodes of which hierarchical data structure point at nodes of a lower level in the hierarchy, the leaf nodes of the hierarchical data structure pointing at the elements of the active part of the index array; and computer-executable commands to reduce the polygon model part to be presented graphically by means of the hierarchical data structure, maintaining the linearity of the index array.

Please replace Para. [0024] beginning at page 7, page line 12, with the following rewritten paragraph:

[0024] The example of Figure 3A shows a linear ~~index~~ vertex array 304A, a linear index array 306A and a hierarchical data structure 302A.

Please replace Para. [0025] beginning at page 7, page line 14, with the following rewritten paragraph:

[0025] The linear index array 306A of the example comprises elements 312A, 314A, 316A, 318A, 320A, which point at elements 324A, 326A, 322A, 328A, 330A of the ~~vertex~~ index array 304A, in this order. The elements 322A to 330A of the vertex array 306A may be, for example, x components of vertices, whereby the x and y coordinates are obtained from the mutual order of the coordinates. Correspondingly, each of the elements 312A to 320A of the index array 306A may represent one triangle, in which case the other two indices are obtained from the first one, based on the order of the elements in the index array 306A, for example. In the example, the elements 312A to 320A belong to the active part 308A of the index array, whereby the vertices 322A to 330A are presented graphically. The index array 306A additionally comprises a passive part 310A, whose elements are not shown separately in Figure 3A.

Please replace Para. [0038] beginning at page 9, page line 33, with the following rewritten paragraph:

[0038] To maintain the linearity of the index array 306A, the elements 312A to 316A removed from the active part 308A of the index array 306A can be replaced with other elements moved from, for example, the end of the active part 308A, reducing at the same time the size of the active part 308A in such a way that no empty memory locations are brought about. This results in the index array 308B of Figure 3B, in the active part of which the element 314A remains in its original place, whereas the elements 318A and 320A are moved to the places of the elements 312A and 316A in this order.

Please replace Para. [0039] beginning at page 10, page line 5, with the following rewritten paragraph:

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[0039] The elements 312A, 316A can be removed in such a way that they are moved from the active part ~~306A~~ 308A to the passive part ~~306A~~ 310A. Thus, the final result is the passive part 310B of Figure 3B, which comprises the elements 312A, 316A. Thus, the size of the passive part ~~306B~~ 310B has also increased compared to the size of the passive part 310A of the passive part 3A.